DETACHMENT H

10 August 1970

STANDARD OPERATING PROCEDURE
H-45-39 This Supersedes H-45-39 dated 25 November 1969

FUEL PROCEDURES

I. PURPOSE: To establish correct procedures necessary in the handling of project aircraft fuel.

II. SCOPE: The provisions of this SOP are applicable to the Director of Materiel, the Logistics Supervisor and the Fuel Specialist.

III. RESPONSIBILITY: The Logistics Officer is responsible for the compliance to this SOP. The Director of Materiel will be responsible to monitor all fuel procedures.

IV. PROCEDURES:

A. Fuel policies are governed by Project Headquarters Directive 45-1 dated September 1968. The directive includes sampling, storage, quality control, shipments and requisitioning policies. This SOP does not duplicate, but rather expands on the Project Headquarters Directive.

B. Daily inventory and daily issue forms (Attach 1 and 2) are maintained by the Fuel Supervisor. These forms reflect up to date fuel consumption and inventory over one week periods.

C. The Fuel Supervisor is also responsible for furnishing the maintenance office with certain information necessary to prepare section IV of the [redacted] This information will be furnished to maintenance every Friday morning. Even though Project Headquarters is responsible for the requisition of replacement TS Fuel for this Detachment, to prevent any supply difficulty, a message reminder will be sent to Project Headquarters when a level of 75,000 gallons is reached.

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D. Operating instructions for Fuel Transfer Operations:

(1) Clean tops of drums making sure no loose sediment is present that might possibly find its way into the fuel.

(2) Turn drums on end to allow fuel to settle at least two hours. More time if possible.

(3) Connect ground wires from the R-2 Unit to pumping trailer to the drum. In addition, a mutual connection to a suitable ground must be made.

(4) Clean drum suction line thoroughly before insertion into the fuel.

(5) After each drum is emptied, remove suction line, allow fuel to drain from line, remove ground connection. Connect ground line to next drum and install section line, in that order.

(6) During fuel transfer, any leaks should be noted. Leaks should be corrected before next transfer operation.

(7) The differential pressure across the filter/separator unit on the pumping trailer must be recorded. In the event of pressure drop, filter/separator elements should be immediately inspected and changed.

E. Aircraft Refuelings:

(1) Prior to refueling the aircraft, the R-2 Unit and aircraft should be properly grounded in accordance with T.O. 00-25-212.

(2) During the refueling operation, the differential pressure across the filter/separator unit on the R-2 Unit will be observed and recorded.

F. Mobile Refueling Units - Pump Carts:

(1) Calibrate fuel flow gauges on R-2 Units every 6 months.

(2) Inspect each hose reel compartment for cleanliness daily.

(3) Inspect each nozzle for condition of dust cover daily.

(4) Inspect every nozzle screen for cleanliness, condition and tightness daily.

(5) Check date of last filter changes vs date stenciled on filter or vehicle data record and due date, red lining of differential pressure gauges daily.

(6) Drain water segregator (if applicable) and check for operation and presence of excessive water or sediment daily.

(7) Inspect each refueling unit and pumping cart for inspection date recorded, on compartment doors daily.

(8) Once a week, R-2 Units should be driven around the base to facilitate the flow of water and foreign matter into the sumps so that it may be drained out of the unit.

G. Drum and Package Storage:

(1) Check for proper batch segregation.

(2) Check for proper identification as to product and date of receipt.

(3) Check for leakers.

(4) Check for proper bung alignment.

(5) Check records to insure issues on first-in first-out basis.

(6) Use wooden dunnage under fuel drums in storage yard to avoid contact with surface moisture.

(7) Use off-loading ramp in lieu of dropping fuel drums from truck to ground. This will prevent high loss of drums on receipt of new fuel.

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[redacted]

H. Base Fuels Laboratory:

(1) Review sample log to insure sampling has been accomplished in accordance with Project Directive. (Weekly)

(2) Review contamination trend charts for possible problem areas. (Weekly)

(3) Observe sampling and testing techniques to verify proper procedures and cleanliness and standards are being adhered to. (Weekly)

(4) Inspect all sampling and test equipment during use or at least monthly.

I. Filter/Separator Elements, R-2 and PMU27/U Fueler Pumper:

(1) Filter element (4930-NL-1817) for R-2 refueler will be changed on an annual basis in lieu of 24 months. Filter should be requisitioned at least 6 months prior to installation. The filter element housing will be drained and thoroughly cleaned prior to installing new filters.

(2) Filter elements for the PMU27 fuel pumper will be changed on an annual basis in lieu of 24 months. These filters are FAK items and will be on hand at all times. The filter element housing will be drained and thoroughly cleaned prior to installing filters.

[redacted]

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Detachment Commander

Distribution:

Copies
1 - Detachment Commander
2-4 - EXO/D/Support
5-7 - D/Operations
8-10- D/Materiel
11-12- C/Security
13-15- Hqs

2 Atchs
1. Daily Inventory Form

SECRET

DAILY INVENTORY

	DATE	DATE	DATE	DATE	DATE	DATE	DATE
BATCH NR							
DRUMS							
UNIT							
TOTAL							
BATCH NR							
DRUMS							
UNIT							
TOTAL							
BATCH NR							
DRUMS							
UNIT							
TOTAL							
BATCH NR							
DRUMS							
UNIT							
TOTAL							
GRAND TOTAL							

DAILY ISSUES

DATE & TIME	A/C NO.	FUEL LOAD	LEFT INBOARD	LEFT OUTBOARD	SUMP	RIGHT INBOARD	RIGHT OUTBOARD	TOTAL	CREW CHIEF

ATCH 2